

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORVEY POOUTTAND	· · · · · · · · · · · · · · · · · · ·
09/675,902	00/00/0000		ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/6/3,902	09/28/2000	Barrie Gilbert	1482-129	8966
	590 05/17/2004		EXAM	INER
Joseph S. Makuch				
Marger Johnson	n & McCollom, P.C.		NGUYEN,	TUNG X
1030 SW Morri			ART UNIT	PAPER NUMBER
Portland, OR	97205		2829	
			DATE MAILED: 05/17/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		•		1		
		• •	09/675,902		GILBERT, BARRIE	
	Office Action Summary		Examin r		Art Unit	
			Tung X Nguyen		2829	;
T	he MAILING DATE of this comm	unication app	ears on the cover she	eet with the co	Orrespondence address	
T CHOOLOU	серіу					•
- Extension	TENED STATUTORY PERIOD ILING DATE OF THIS COMMU is of time may be available under the provision (6) MONTHS from the mailing date of this continuous of the mailing date of this continuous the mailing date of this continuous that is not the mailing date of this continuous that is not the mailing date of this continuous that is not the mailing date of this continuous that is not the mailing date of this continuous that is not the mailing date of this continuous that is not the mailing date of this continuous that is not the mailing date of the mailing date of the mailing date of this continuous that is not the mailing date of this continuous that is not the mailing date of the mailing date of this continuous that is not the mailing date of this continuous that is not the mailing date of the mailing	NICATION:	 ■ Part of the control of the control		and the second of the second	
- If the period - If NO period - Failure to Any reply	of for reply specified above is less than thirty od for reply is specified above, the maximum reply within the set or extended period for refreceived by the Office later than three month term adjustment. See 37 CFR 1.704(b).	mmunication. (30) days, a reply statutory period will, by statute, a safter the mailing.	within the statutory minimum	of thirty (30) days MONTHS from the	will be considered timely. he mailing date of this communicatio	n.
Status						
1)⊠ Re	sponsive to communication(s) f	iled on <i>amend</i>	dment filed on 2/20/	n4	, n	
2a)⊠ Thi	is action is FINAL .		action is non-final.	<u>0 T</u> .		
:l	ce this application is in conditio			mottors mes		
clo	sed in accordance with the prac	tice under Ex	coefe Ousula 1035	matters, pros	secution as to the ments is	•
		ace under Ex	parte Quayle, 1935	O.D. 11, 45	3 O.G. 213.	
Disposition	of Claims					
4)⊠ Cla	im(s) <u>2-31</u> is/are pending in the	application.	4-1		В.	
	Of the above claim(s) is/		n from consideration	1		•
+a)	· · · · ——					
			Thom consideration			
5)⊠ ,Cla	im(s) <u>6-9,13-18,21 and 24</u> is/ar	e allowed.				
5)⊠ ,Cla 6)⊠ Cla	im(s) <u>6-9,13-18,21 and 24</u> is/ar im(s) <u>2-5,10-12,19,20,22,23 an</u>	e allowed.				
5)⊠ Cla 6)⊠ Cla 7)⊠ Cla	im(s) <u>6-9,13-18,21 and 24</u> is/ar im(s) <u>2-5,10-12,19,20,22,23 an</u> im(s) <u>28</u> is/are objected to.	e allowed. <u>d·25-31</u> is/are	rejected.			
5)⊠ Cla 6)⊠ Cla 7)⊠ Cla	im(s) <u>6-9,13-18,21 and 24</u> is/ar im(s) <u>2-5,10-12,19,20,22,23 an</u>	e allowed. <u>d·25-31</u> is/are	rejected.			
5)⊠ Cla 6)⊠ Cla 7)⊠ Cla	im(s) <u>6-9, 13-18, 21 and 24</u> is/ar im(s) <u>2-5, 10-12, 19, 20, 22, 23 an</u> im(s) <u>28</u> is/are objected to. im(s) are subject to restr	e allowed. <u>d·25-31</u> is/are	rejected.			
5)⊠ ,Cla 6)⊠ Cla 7)⊠ Cla 8)⊡ Cla Application I	im(s) <u>6-9, 13-18, 21 and 24</u> is/ar im(s) <u>2-5, 10-12, 19, 20, 22, 23 and im(s) <u>28</u> is/are objected to im(s) are subject to restr</u>	e allowed. <u>d·25-31</u> is/are	rejected.			
5)⊠ ,Cla 6)⊠ Cla 7)⊠ Cla 8)⊡ Cla Application I	im(s) <u>6-9, 13-18, 21 and 24</u> is/ar im(s) <u>2-5, 10-12, 19, 20, 22, 23 and im(s) <u>28</u> is/are objected to im(s) are subject to restreparts Papers specification is objected to by t</u>	e allowed. d·25-31 is/are iction and/or the Examiner.	e rejected. election requirement			
5)⊠ ,Cla 6)⊠ Cla 7)⊠ Cla 8)□ Cla Application I 9)□ The 10)⊠ The	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restruction are subject to by the drawing(s) filed on 26 March 26	e allowed. d·25-31 is/are iction and/or he Examiner. 003 is/are: a)	e rejected. election requirement accepted or b)	t.] objected to	by the Examiner.	
5)⊠ ,Cla 6)⊠ Cla 7)⊠ Cla 8)□ Cla Application I 9)□ The 10)⊠ The	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restruction are subject to by the drawing(s) filed on 26 March 26 licant may not request that any objected to by the drawing is objected to be drawing in the drawing in	e allowed. d·25-31 is/are iction and/or he Examiner. 003 is/are: a) ection to the dr	e rejected. election requirement accepted or b) awing(s) be held in ab	t.] objected to reyance. See 3	37 CFR 1.85(a).	
5)⊠ ,Cla 6)⊠ Cla 7)⊠ Cla 8)□ Cla Application I 9)□ The 10)⊠ The App	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restrict a specification is objected to by the drawing(s) filed on 26 March 20 licant may not request that any objectement drawing sheet(s) including	e allowed. d·25-31 is/are iction and/or the Examiner. 003 is/are: a) ection to the dr	e rejected. election requirement accepted or b) awing(s) be held in ab	t.] objected to reyance. See 3 wing(s) is objected	37 CFR 1.85(a). cted to. See 37 CFR 1.121(d)
5)⊠ ,Cla 6)⊠ Cla 7)⊠ Cla 8)□ Cla Application I 9)□ The 10)⊠ The App	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restruction are subject to by the drawing(s) filed on 26 March 26 licant may not request that any objected to by the drawing is objected to be drawing in the drawing in	e allowed. d·25-31 is/are iction and/or the Examiner. 003 is/are: a) ection to the dr	e rejected. election requirement accepted or b) awing(s) be held in ab	t.] objected to reyance. See 3 wing(s) is objected	37 CFR 1.85(a). cted to. See 37 CFR 1.121(d).
5)⊠ ,Cla 6)⊠ Cla 7)⊠ Cla 8)□ Cla Application I 9)□ The 10)⊠ The App Rep 11)□ The	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restrict a specification is objected to by the drawing(s) filed on 26 March 20 licant may not request that any objectement drawing sheet(s) including	e allowed. d·25-31 is/are iction and/or the Examiner. 003 is/are: a) ection to the dr	e rejected. election requirement accepted or b) awing(s) be held in ab	t.] objected to reyance. See 3 wing(s) is objected	37 CFR 1.85(a). cted to. See 37 CFR 1.121(d)
5)⊠ ,Cla 6)⊠ Cla 7)⊠ Cla 8)□ Cla Application I 9)□ The 10)⊠ The App Rep 11)□ The Priority unde	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restrict and are subject to restrict and are subject to restrict and are subjected to by the drawing(s) filed on 26 March 20 licant may not request that any objected are 35 U.S.C. § 119	e allowed. d·25-31 is/are iction and/or he Examiner. 003 is/are: a) ection to the dr ig the correctio to by the Exam	e rejected. election requirement accepted or b) awing(s) be held in ab a is required if the draw	t. objected to reyance. See t wing(s) is objected Office A	37 CFR 1.85(a). cted to. See 37 CFR 1.121(d Action or form PTO-152.).
5)⊠ ,Cla 6)⊠ Cla 7)⊠ Cla 8)□ Cla Application I 9)□ The 10)⊠ The App Rep 11)□ The Priority unde	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restrict and are subject to restrict and are subject to by the drawing(s) filed on 26 March 20 licant may not request that any objected are 35 U.S.C. § 119 inowledgment is made of a claim	e allowed. d·25-31 is/are iction and/or he Examiner. 003 is/are: a) ection to the dr ig the correctio to by the Exam	e rejected. election requirement accepted or b) awing(s) be held in ab a is required if the draw	t. objected to reyance. See t wing(s) is objected Office A	37 CFR 1.85(a). cted to. See 37 CFR 1.121(d Action or form PTO-152.)
5)⊠ ,Cla 6)⊠ Cla 7)⊠ Cla 8)□ Cla 8)□ The 10)⊠ The App Rep 11)□ The Priority unde	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restrict and are subject to restrict and are subject to restrict and are subjected to by the drawing(s) filed on 26 March 20 licant may not request that any objected are 35 U.S.C. § 119 mowledgment is made of a claim b) Some * c) None of:	e allowed. d·25-31 is/are iction and/or the Examiner. 003 is/are: a) ection to the dr g the correctio to by the Examiner. In for foreign p	e rejected. election requirement accepted or b) awing(s) be held in ab n is required if the draw miner. Note the attack	t.] objected to beyance. See (wing(s) is objected Office A .C. § 119(a)-(37 CFR 1.85(a). cted to. See 37 CFR 1.121(d Action or form PTO-152.)
5) \(\times \) Cla 6) \(\times \) Cla 7) \(\times \) Cla 8) \(\times \) Cla Application I 9) \(\times \) The 10) \(\times \) The 11) \(\times \) The Priority unde 12) \(\times \) Ackr a) \(\times \) Al 1.	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restrict and are subject to restrict and are subject to by the drawing(s) filed on 26 March 20 licant may not request that any objected are 35 U.S.C. § 119 nowledgment is made of a claim b) Some * c) None of:	e allowed. d·25-31 is/are iction and/or the Examiner. 003 is/are: a) ection to the dr g the correction to by the Examiner. of for foreign p	e rejected. election requirement accepted or b) awing(s) be held in ab n is required if the drawniner. Note the attack riority under 35 U.S.	t. objected to beyance. See wing(s) is objected Office A C. § 119(a)-(37 CFR 1.85(a). cted to. See 37 CFR 1.121(d Action or form PTO-152. (d) or (f).)
5)⊠ ,Cla 6)⊠ Cla 7)⊠ Cla 7)⊠ Cla 8)□ Cla Application I 9)□ The 10)⊠ The App Rep 11)□ The Priority unde 12)□ Ackr a)□ Al 1.□ 2.□	im(s) 6-9, 13-18,21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restrict and are subject to restrict and are subject to restrict and are subjected to by the drawing(s) filed on 26 March 20 licant may not request that any objected are 35 U.S.C. § 119 nowledgment is made of a claim b) some * c) None of: Certified copies of the priority certified copies of the priority	e allowed. d·25-31 is/are iction and/or he Examiner. 003 is/are: a) ection to the dr g the correctio to by the Examiner of for foreign p documents if	e rejected. election requirement accepted or b) awing(s) be held in ab is required if the drawniner. Note the attack riority under 35 U.S. have been received.	t.] objected to beyance. See the control of the c	37 CFR 1.85(a). cted to. See 37 CFR 1.121(d Action or form PTO-152. (d) or (f).)
5) \(\times \) Cla 6) \(\times \) Cla 7) \(\times \) Cla 8) \(\times \) Cla Application I 9) \(\times \) The 10) \(\times \) The 11) \(\times \) The Priority unde 12) \(\times \) Ackr a) \(\times \) Al 1.	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restrict and are subject to restrict and are subject to restrict and are subjected to by the drawing (s) filed on 26 March 20 licant may not request that any objected are 35 U.S.C. § 119 Inowledgment is made of a claim b) Some * c) None of: Certified copies of the priority Copies of the certified copies	e allowed. d-25-31 is/are iction and/or he Examiner. 003 is/are: a) ection to the dr g the correction to by the Examiner of for foreign p	e rejected. election requirement accepted or b) awing(s) be held in ab n is required if the drawniner. Note the attack riority under 35 U.S. have been received, ave been received, documents have be	t.] objected to beyance. See swing(s) is objected Office A C. § 119(a)-(in Application een received	37 CFR 1.85(a). cted to. See 37 CFR 1.121(d Action or form PTO-152. (d) or (f).)
5)⊠ ,Cla 6)⊠ Cla 7)⊠ Cla 7)⊠ Cla 8)□ Cla Application I 9)□ The 10)⊠ The App Rep 11)□ The Priority unde 12)□ Ackr a)□ Al 1.□ 2.□ 3.□	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restrict and are subject to restrict and are subject to restrict and are subjected to by the drawing (s) filed on 26 March 20 licant may not request that any objected are as 5 U.S.C. § 119 nowledgment is made of a claim b) Some * c) None of: Certified copies of the priority Copies of the certified copies application from the Internation	e allowed. d-25-31 is/are iction and/or he Examiner. 003 is/are: a) ection to the dr g the correction to by the Examiner of foreign p documents is documents is of the priority onal Bureau (e rejected. election requirement accepted or b) awing(s) be held in about its required if the drawniner. Note the attackniner. Note the attackniner is received. have been received and accuments have be PCT Rule 17.2(a)).	t.] objected to beyance. See 3 wing(s) is objected Office A.C. § 119(a)-(in Application een received	37 CFR 1.85(a). cted to. See 37 CFR 1.121(d Action or form PTO-152. (d) or (f). 1 No in this National Stage	
5)⊠ ,Cla 6)⊠ Cla 7)⊠ Cla 7)⊠ Cla 8)□ Cla Application I 9)□ The 10)⊠ The App Rep 11)□ The Priority unde 12)□ Ackr a)□ Al 1.□ 2.□ 3.□	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restrict and are subject to restrict and are subject to restrict and are subjected to by the drawing (s) filed on 26 March 20 licant may not request that any objected are 35 U.S.C. § 119 Inowledgment is made of a claim b) Some * c) None of: Certified copies of the priority Copies of the certified copies	e allowed. d-25-31 is/are iction and/or he Examiner. 003 is/are: a) ection to the dr g the correction to by the Examiner of foreign p documents is documents is of the priority onal Bureau (e rejected. election requirement accepted or b) awing(s) be held in about its required if the drawniner. Note the attackniner. Note the attackniner is received. have been received and accuments have be PCT Rule 17.2(a)).	t.] objected to beyance. See 3 wing(s) is objected Office A.C. § 119(a)-(in Application een received	37 CFR 1.85(a). cted to. See 37 CFR 1.121(d Action or form PTO-152. (d) or (f). 1 No in this National Stage).
5)⊠ ,Cla 6)⊠ Cla 7)⊠ Cla 8)□ Cla 8)□ Cla Application I 9)□ The 10)⊠ The App Rep 11)□ The Priority unde 12)□ Ackr a)□ Al 1.□ 2.□ 3.□	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restrict and are subject to restrict and are subject to restrict and are subjected to by the drawing (s) filed on 26 March 20 licant may not request that any objected are as 5 U.S.C. § 119 nowledgment is made of a claim b) Some * c) None of: Certified copies of the priority Copies of the certified copies application from the Internation	e allowed. d-25-31 is/are iction and/or he Examiner. 003 is/are: a) ection to the dr g the correction to by the Examiner of foreign p documents is documents is of the priority onal Bureau (e rejected. election requirement accepted or b) awing(s) be held in about its required if the drawniner. Note the attackniner. Note the attackniner is received. have been received and accuments have be PCT Rule 17.2(a)).	t.] objected to beyance. See 3 wing(s) is objected Office A.C. § 119(a)-(in Application een received	37 CFR 1.85(a). cted to. See 37 CFR 1.121(d Action or form PTO-152. (d) or (f). 1 No in this National Stage	
5)⊠ ,Cla 6)⊠ Cla 7)⊠ Cla 7)⊠ Cla 8)□ Cla Application I 9)□ The 10)⊠ The App Rep 11)□ The Priority unde 12)□ Ackr a)□ Al 1.□ 2.□ 3.□	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restrict and are subject to restrict and are subject to restrict and are subjected to by the drawing (s) filed on 26 March 20 licant may not request that any objected are as 5 U.S.C. § 119 nowledgment is made of a claim b) Some * c) None of: Certified copies of the priority Copies of the certified copies application from the Internation	e allowed. d-25-31 is/are iction and/or he Examiner. 003 is/are: a) ection to the dr g the correction to by the Examiner of foreign p documents is documents is of the priority onal Bureau (e rejected. election requirement accepted or b) awing(s) be held in about its required if the drawniner. Note the attackniner. Note the attackniner is received. have been received and accuments have be PCT Rule 17.2(a)).	t.] objected to beyance. See 3 wing(s) is objected Office A.C. § 119(a)-(in Application een received	37 CFR 1.85(a). cted to. See 37 CFR 1.121(d Action or form PTO-152. (d) or (f). 1 No in this National Stage	
5) , Cla 6) Cla 7) Cla 7) Cla 8) Cla 8) Cla Application I 9) The 10) The App Rep 11) The Priority unde 12) Ackr a) Al 1. 2. 3. 4 * See tl	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restrict and are subject to restrict and are subject to restrict and are subjected to by the drawing sheet and are subjected to by the drawing sheet and are subjected are as 5 U.S.C. § 119 Inowledgment is made of a claim of the certified copies of the priority application from the Internation the attached detailed Office action im simple subjected are action from the Internation of the attached detailed Office action in the attached detailed Office action in the internation of the attached detailed Office action in the internation of the attached detailed Office action in the internation of the attached detailed Office action in the internation of the attached detailed Office action in the internation of the attached detailed Office action in the internation of the attached detailed Office action in the internation of the attached detailed Office action in the internation of the attached detailed Office action in the internation of the attached detailed Office action in the internation of the intern	e allowed. d-25-31 is/are iction and/or he Examiner. 003 is/are: a) ection to the dr g the correction to by the Examiner of foreign p documents is documents is of the priority onal Bureau (e rejected. election requirement accepted or b) awing(s) be held in about its required if the drawniner. Note the attackniner. Note the attackniner is received. have been received and accuments have be PCT Rule 17.2(a)).	t.] objected to beyance. See 3 wing(s) is objected Office A.C. § 119(a)-(in Application een received	37 CFR 1.85(a). cted to. See 37 CFR 1.121(d Action or form PTO-152. (d) or (f). 1 No in this National Stage	
5) \ Cla 6) Cla 7) Cla 7) Cla 8) Cla 8) Cla Application I 9) The 10) The App Rep 11) The Priority unde 12) Ackr a) Al 1. 2. 3. * See tl Attachment(s) 1) Notice of R	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restrict and are subject to restrict and are subject to restrict and are subjected to by the drawing (s) filed on 26 March 20 licant may not request that any objected are as 5 U.S.C. § 119 nowledgment is made of a claim b) Some * c) None of: Certified copies of the priority Copies of the certified copies application from the Internation the attached detailed Office actions are subjected (PTO-892)	e allowed. d-25-31 is/are iction and/or he Examiner. 003 is/are: a) ection to the dr g the correctio to by the Exam n for foreign p documents I documents I of the priority onal Bureau (on for a list of	e rejected. election requirement accepted or b) awing(s) be held in ab is required if the draw miner. Note the attack riority under 35 U.S. have been received. have been received documents have be PCT Rule 17.2(a)). the certified copies	t.] objected to beyance. See wing(s) is objected Office A.C. § 119(a)-(in Application een received not received.	37 CFR 1.85(a). cted to. See 37 CFR 1.121(d Action or form PTO-152. (d) or (f). in No in this National Stage	
5) Cla 6) Cla 7) Cla 7) Cla 8) Cla 8) Cla Application I 9) The 10) The App Rep 11) The Priority unde 12) Ackr a) Al 1. 2. 3. * See tl Attachment(s) 1) Notice of R 2) Notice of D	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restrict and are subjected to by the drawing (s) filed on 26 March 20 licant may not request that any objected are 35 U.S.C. § 119 nowledgment is made of a claim b) Some * c) None of: Certified copies of the priority Copies of the certified copies application from the Internation attached detailed Office actions are subjected (PTO-892) raftsperson's Patent Drawing Review (Face and are subjected (PTO-892) raftsperson's Patent Drawing Review (Face are	e allowed. d·25-31 is/are iction and/or he Examiner. 003 is/are: a) ection to the dr g the correctio to by the Exam n for foreign p documents I documents I of the priority onal Bureau (on for a list of	e rejected. election requirement accepted or b) awing(s) be held in ab is required if the draw miner. Note the attack nority under 35 U.S. have been received, nave been received documents have be PCT Rule 17.2(a)), the certified copies	t.] objected to beyance. See wing(s) is objected Office A.C. § 119(a)-(in Application een received not received.	37 CFR 1.85(a). cted to. See 37 CFR 1.121(d Action or form PTO-152. (d) or (f). in No in this National Stage	
5) Cla 6) Cla 7) Cla 8) Cla 7) Cla 8) Cla Application I 9) The 10) The App Rep 11) The Priority unde 12) Ackr a) Al 1. 2. 3. * See tl Attachment(s) 1) Notice of R 2) Notice of D 3) Information	im(s) 6-9, 13-18, 21 and 24 is/ar im(s) 2-5, 10-12, 19, 20, 22, 23 an im(s) 28 is/are objected to im(s) are subject to restrict and are subject to restrict and are subject to restrict and are subjected to by the drawing (s) filed on 26 March 20 licant may not request that any objected are as 5 U.S.C. § 119 nowledgment is made of a claim b) Some * c) None of: Certified copies of the priority Copies of the certified copies application from the Internation the attached detailed Office actions are subjected (PTO-892)	e allowed. d·25-31 is/are iction and/or he Examiner. 003 is/are: a) ection to the dr g the correctio to by the Exam n for foreign p documents I documents I of the priority onal Bureau (on for a list of	e rejected. election requirement accepted or b) awing(s) be held in ab is required if the draw miner. Note the attack nority under 35 U.S. have been received, nave been received documents have be PCT Rule 17.2(a)), the certified copies	t.] objected to beyance. See wing(s) is objected office A C. § 119(a)-(in Application een received not received. ew Summary (P) No(s)/Mail Date of Informal Pate	37 CFR 1.85(a). cted to. See 37 CFR 1.121(d Action or form PTO-152. (d) or (f). in No in this National Stage	

Art Unit: 2829

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 2-5, 22-23, 25-27, 29-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamashita et al. (u.s.p 4,906,836).

As to claims 2-5, 22-23, 25-27, 30 Yamashita et al. disclose in Fig. 1, a measurement system comprising: a first log amp (LOG1) having a current output (inherent); and coupling to (inherent); a second log amp (LOG2) having a current output (inherent); and coupling to a differencing circuit (AMP1), wherein the differencing circuit is arranged to continuously process output from the first (LOG1) and second (LOG2) log amps; and the differencing circuit (AMP1) having a summing node (at the negative node and the positive node of AMP1, for example the feed back loop R2 and R1 meet at the negative node).

According to Applicant's remark on page 7 filed on 02/20/04, Logarithmic Amplifiers are progressive compression log amps. Therefore, the log amps (log1 & log2 of figure 1) of Yamashita et al. are progressive compression log amps.

As to claim 29, Yamashita et al. disclose in Fig. 1, the adding limitation of the Log Amp have current-mode outputs be considered as the difference voltage signals between the negative node and positive node of the amplifier (AMP1).

Art Unit: 2829

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 10-12,19-20, 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamashita et al. (u.s.p 4,906,836).

As to claims 10-12, 19-20, 31, Yamashita et al. disclose in Fig. 1, the system comprising: a first log amp (LOG 1), and the second log amp (LOG 2) arranging symmetrically about a center line (see Examiner's label on Fig. 1); and wherein the first and second log amps are co-integrated on a substrate in a package. For example, (see the abstract) mentions that "An integrated circuit includes an operational amplifier...the output of the second logarithmic amplifier is connected to the inverting input terminal of the operational amplifier", thus obviously suggesting the first and second log amps are co-integrated on the semiconductor. In regard to claimed "co-integrated on the substrate" it is note that the reference is silent such feature; However, It would have been obvious to a person having ordinary skill in the art at the time the invention that any conventional semiconductor structure could have an co-integrated on the substrate implemented as an inherent design variations, as also well-known in the existing semiconductor technology.

6. Claim 28 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamashita et al. (u.s.p 4,906,836), in view of Belcher (u.s.p 5,789,927).

Art Unit: 2829

As to claim 28, Yamashita et al. disclose in Fig. 1 all limitations except for the power amplifier having an input coupled to an input of the first log amp and an output coupled to an input of the second log amp. However, Belcher disclose in Fig. 3, the power amplifier (10) having an input coupled to the first hard limiter (21) being considered as the first Log amp, and the output coupled to the second hard limiter (31) being considered as the second Log amp for measuring the error between two signals of the input and output of the power amplifier (10). It would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the system of Yamashita et al., and provide the power amplifier (10), as taught by Belcher for measuring the error between two signals of the input and output of the power amplifier (10).

7. The method is considered inherent in the structure.

Allowable Subject Matter

8. Claims 6-9, 13-18, 21, and 24 are allowed.

Claim 28 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

9. The following is an examiner's statement of reasons for allowance:

As to claims 6-9, 16-18, 21, and 24 the prior art does not disclose the phase detector core coupled to the first and second log amps.

As to claim 13, the prior art does not disclose the first and second parasitic network coupled to the first and second log amps.

Art Unit: 2829

As to claims 14-15, the prior art does not disclose the one or more log amps coupled to the input of the differencing circuit.

As to claim 28, the prior art does not disclose the power amplifier having an input coupled to an input of the first log amp and an output coupled to an input of the second log amp.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

10. Applicant's arguments filed 02/20/04 have been fully considered but they are not persuasive following the reasons:

As to claims 2, 10, 19, 20, 22, 30, 31, in re page 7, Applicant argues that Yamashita only discloses log amps, Yamashita does not disclose the Log amps are progressive compression log amps.

In response, as to claims 2, 2, 10, 19, 20, 22, 30, 31 according to Applicant's remark on page 7 filed on 02/20/04, Logarithmic Amplifiers are progressive compression log amps. Therefore, the log amps (log1 & log2 of figure 1) of Yamashita et al. are progressive compression log amps.

As to claim 4, in re pages 7-8, Applicant argues that Yamashita's differencing circuit does not have a summing node.

Art Unit: 2829

In response, as to claim 4, Yamashita et al.'s differencing circuit (AMP1 of figure 1) clearly disclose the summing node (at the negative/positive node of figure 1; e.g. The current flowing in the R1, and feedback's current flowing R2 and these current flow at negative node; however, the current flowing into R3, and the current flowing into R4 flow at the positive node).

As to claim 11, applicant argues that the log amps are not arranged symmetrically about a center line, because Yamashita does not disclose the physical configuration of the log amps on the substrate. Applicant states that figure 1 is merely a schematic of the circuit and not an actual layout; therefore, examiner's label in figure 1 is irrelevant.

In response, as to claim 11, the examiner points out that the claim says, "arranged symmetrically about a center line." The claim does not state what the center line is. Therefore, irrespective of how the log amps are arranged on the substrate, there is always some center line from which each log amp is equidistant (that is, is symmetric about). Examiner was merely showing one example of how such a line could be defined by showing the label in figure 1. Namely, if the center line is defined as the line in the middle of the two log amps, then, the log amps will necessarily be equidistance from it.

Furthermore, since applicant has not defined the type of symmetry, any two log amps located on a substrate would always be symmetric about the line in the middle of both of them.

Art Unit: 2829

As to claim 25, in re page 8, Applicant argues that Yamashita does not disclose the use of a reference signal as an input to either of LOG1 and LOG2.

In response, as to claim 25, Yamashita et al. clearly show in Figs. 1-4, the LOG2 using the reference node (at positive node of LOG2 of figure 1 connects to ground). Therefore, Yamashita et al. disclose the using of a reference signal at positive node of LOG2 (figure 1).

As to claim 26, in re page 8, Applicant argues that Yamashita does not identify any input signals that have the same waveform.

In response, as to claim 26, Yamashita et al. show in Fig. 2, the input signals input into the LOG/R and LOG/G with the same input signal at positive nodes of LOG/R and LOG/G. Therefore, Yamashita et al. disclose the inputs that have the same waveform.

As to claims 27, 29, in re page 8, Applicant argues that Yamashita does not disclose utilizing a modulated signal for the first and second signals, and the log amps have current-mode outputs.

In response, as to claims 27, 29, the examiner respectfully disagrees with Applicant about the issue for the following reasons: Any signals input to the Log amps (Log 1, and Log 2) producing the signals with the formular $e1 = V_T Ln(I_{f1}/I_{s1})$, and $e2 = V_T Ln(I_{f2}/I_{s2})$, so the signals will vary the amplitude depended on I_{f1} , I_{f2} and the diodes D1, D2 (see col. 1, lines 25-40). Therefore, Yamashita et al. disclose utilizing a modulated signal for the first and second signals, and the log amps have current-mode output (see col. 1, lines 25-40).

Art Unit: 2829

Conclusion

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung X Nguyen whose telephone number is (571) 272-1967. The examiner can normally be reached on 8:30am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2829

Page 9

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TN 5/06/04

David Larnelse

Primary Exary 5/10/04